



## USGS South Atlantic Water Science Center (SAWSC) Student Corps Employment opportunity for Students and Recent Graduates Date: 12/1/2021

**Title:** Research Assistant (Geospatial Analysis)

**Duty Station:** Raleigh, NC

**Approximate Start Date:** March 2022

**Hours per week:** 20-40 hours

**Duration:** 6 months

The United States Geological Survey's (USGS) South Atlantic Water Science Center (SAWSC) offers part-time and full time, paid positions in North Carolina, South Carolina, and Georgia to current students and recent graduates. These positions are ideally suited for talented individuals seeking hands on experience in environmental science, hydrology, physical science, and biological sciences. If you are interested in research and building your technical skills as part of a team of expert scientists focused on water resources in the Southeast U.S., then we want you to be part of the SAWSC Student Corps!

**To qualify** for this position, you must be at least 18 years of age, eligible to work in the U.S., and enrolled in good standing or a recent graduate (<1 yr ago) in an accredited College or University. The applicant should have an interest in hydrology, environmental science, or geosciences.

### **Compensation:**

Compensation is commensurate with the level of education and experience.

BA/BS Degree (Recent Graduate):	\$18.19/hr
BA/BS Degree + 1 year Graduate School:	\$22.53/hr
MA/MS:	\$33.35/hr
PhD:	\$39.97/hr

**To apply** for this position, please send the following information to Krissy Hopkins via email ([khopkins@usgs.gov](mailto:khopkins@usgs.gov)) with the following subject line: *Application - Student Research Opportunity*. A single attachment is preferred. Deadline to apply is December 31, 2021.

1. A brief statement explaining your interest in the position,
2. An updated resume including any relevant skills or work experience,
3. Unofficial transcripts
4. Name, contact information, and relationship for at least 2 professional references

Review of applications will begin immediately and continue until the position is filled. Virtual interviews will be scheduled with all qualified applicants and selections will be made shortly thereafter. For questions, contact Krissy Hopkins ([khopkins@usgs.gov](mailto:khopkins@usgs.gov)).



## Floodplain Ecosystem Services Project



### Project Description:

The student will assist on a project to quantify and value flood attenuation services provided by floodplains in select basins in the Delaware River watershed. The student will manipulate existing datasets to serve as inputs to a flood model (FEMA's HAZUS Flood Model) to quantify river levels given current conditions and river levels if the floodplain water storage is removed. The student will be mentored by a team of interdisciplinary scientists, including a hydrologist, economist, geographer, and ecologist.

### Job Duties:

Specific duties will include performing geospatial analysis in a geographic information system (ArcGIS) to assist in quantifying flood attenuation services provided by floodplains. Manipulate existing geospatial datasets on stream channel geometry to serve as model inputs. Generate maps and graphs of model output and assist in the preparation of a journal article documenting modeling efforts.

### Required Expertise/Skills:

- Current graduate student or a recent graduate with a B.S. or M.S. degree.
- Completed two or more years of academic course work in a discipline of environmental sciences or geography, including courses in geographic information systems.
- Working knowledge of ArcGIS is required.
- Experience with flood modeling software is preferred, but not required.

### Work Setting/Additional Information:

Work is primarily office work on a computer. This project does not include any field work or travel. Student will be working remotely and must have access to a reliable internet connect.

For more information about the SAWSC Student Corps visit

<https://www2.usgs.gov/water/southatlantic/jobs/index.php> or use this QR code



For information about SAWSC visit

<https://www.usgs.gov/centers/sa-water> .

**APPLY  
TODAY!**